

WEST Search History

DATE: Wednesday, August 13, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=ADJ

L18 L11

26 L18

DB=EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L17 L16

23 L17

DB=JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L16 L12 and (information near (trace or debug\$))

34 L16

L15 L12 and (bus near (interfac\$ or link))

4 L15

L14 L12 and ((bus near communication) same processor)

0 L14

L13 L12 and (bus near (interfac\$ or link) same processor)

0 L13

L12 debug\$ near (circuit or chip or module)

364 L12

DB=USPT,PGPB; PLUR=YES; OP=ADJ

L11 L10 and exception

30 L11

L10 L9 or l8

72 L10

L9 L1 and (bus near (interfac\$ or link) same processor)

66 L9

L8 L1 and ((bus near communication) same processor)

15 L8

L7 L6 and exception

13 L7

L6 L5 or l4

22 L6

L5 L2 and (bus near (interfac\$ or link) same processor)

21 L5

L4 L2 and ((bus near communication) same processor)

6 L4

L3 L2 and bus near (interfac\$ or link)

44 L3

L2 L1 and information near (trace or debug\$)

149 L2

L1 debug\$ near (circuit or chip or module)

649 L1

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 20 of 26 returned.**☐ 1. Document ID: US 6591378 B1

L18: Entry 1 of 26

File: USPT

Jul 8, 2003

US-PAT-NO: 6591378

DOCUMENT-IDENTIFIER: US 6591378 B1

TITLE: Debug controller in a data processor and method therefor

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arends; John H.	Austin	TX		
Scott; Jeffrey W.	Austin	TX		
Moyer; William C.	Dripping Springs	TX		

US-CL-CURRENT: 714/38; 712/227, 714/30, 717/124

ABSTRACT:

A method for debug control in a pipelined data processor where an offset is determined for the program counter (PC) based on the state of the pipeline. The offset is subtracted from the PC value at the end of a debug session. The resultant PC value restarts fetching of a last unsuccessfully completed instruction. If the offset indicates a change to the PC value, the instruction register is adjusted to a nop to allow the pipeline to restart execution after the last successfully completed instruction. In one embodiment, the state of the machine is preserved prior to exception handling.

25 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Dram Desc	Image
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☐ 2. Document ID: US 6557119 B1

L18: Entry 2 of 26

File: USPT

Apr 29, 2003

US-PAT-NO: 6557119

DOCUMENT-IDENTIFIER: US 6557119 B1

TITLE: Microcomputer debug architecture and method

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; David Alan	Bristol			GB
Rich; Anthony Willis	Cambridge			NZ

US-CL-CURRENT: 714/38; 714/31, 714/47, 717/124, 717/129, 717/131

ABSTRACT:

A computer system, comprising at least one central processing unit and a memory unit coupled to the at least one central processing unit, a set of watchpoints defined in the computer system; each watchpoint in the set of watchpoints comprising a programmable precondition register and a programmable action register, a set of latches, and selection circuitry that selects one latch in the set of latches to couple an output of an action register to an input of the selected latch.

35 Claims, 23 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw Desc	Image
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☐ 3. Document ID: US 6542983 B1

L18: Entry 3 of 26

File: USPT

Apr 1, 2003

US-PAT-NO: 6542983

DOCUMENT-IDENTIFIER: US 6542983 B1

TITLE: Microcomputer/floating point processor interface and method

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gearty; Margaret Rose	Bath			GB
Peng; Chih-Jui	San Jose	CA		

US-CL-CURRENT: 712/212; 712/214, 712/215, 712/219, 712/220, 712/222

ABSTRACT:

In a computer system having a central processing unit (CPU) execution pipeline and a floating point unit (FPU) execution pipeline, the CPU execution pipeline including a CPU decoder

pipestage and the FPU execution pipeline including an FPU decoder pipestage, the method including the steps of, (a) sending a first instruction to the CPU decoder pipestage, (b) sending the first instruction to the FPU decoder pipestage, (c) generating a signal indicating that the first instruction has been accepted by the CPU decoder pipestage, (d) generating a signal indicating that the first instruction has been accepted by the FPU decoder pipestage, (e) sending a second instruction to the CPU decoder pipestage in response to step (d), and (f) sending a second instruction to the FPU decoder pipestage in response to step (c). A corresponding apparatus is also provided.

3 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Full	Draw Desc	Image
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☐ 4. Document ID: US 6502210 B1

L18: Entry 4 of 26

File: USPT

Dec 31, 2002

US-PAT-NO: 6502210

DOCUMENT-IDENTIFIER: US 6502210 B1

TITLE: Microcomputer debug architecture and method

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; David Alan	Bristol			GB

US-CL-CURRENT: 714/38; 714/31, 714/47, 717/124, 717/129, 717/131

ABSTRACT:

A computer system including at least one central processing unit, a memory unit coupled to the at least one central processing unit, a set of watchpoints a set of watchpoints defined in the computer system, each watchpoint in the set of watchpoints including a programmable precondition register that stores a set of precondition codes, wherein the set of precondition codes is identical for each watchpoint in the set of watchpoints and a programmable action register that stores a set of action codes, wherein the set of action codes is identical for each watchpoint in the set of watchpoints, and a first comparator, having inputs coupled to the precondition register, that compares at least one precondition code in the set of precondition codes with a first data value in the computer system and provides a signal to the action register in response thereto. A method of triggering a watchpoint in a computer system is also provided.

26 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RVWD	Dram Desc	Image
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☐ 5. Document ID: US 6487683 B1

L18: Entry 5 of 26

File: USPT

Nov 26, 2002

US-PAT-NO: 6487683

DOCUMENT-IDENTIFIER: US 6487683 B1

TITLE: Microcomputer debug architecture and method

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; David Alan	Clifton			GB

US-CL-CURRENT: 714/38; 714/31, 714/37, 714/47, 717/124, 717/129,
717/131

ABSTRACT:

A computer system, including a central processing unit and a memory unit coupled to the at least one central processing unit, a set of watchpoints defined in the computer system, each watchpoint in the set of watchpoints including a programmable precondition register that stores a set of precondition codes, wherein the set of precondition codes is identical for each watchpoint in the set of watchpoints, a programmable action register that stores a set of action codes, wherein the set of action codes is identical for each watchpoint in the set of watchpoints, a set of latches, each latch having an input and an output, and circuitry that couples at least one latch in the set of latches to at least two watchpoints in the set of watchpoints so that there is a predetermined relationship between triggering of the at least two watchpoints. A method of filtering debugging data in a computer system is also provided.

16 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RVWD	Dram Desc	Image
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☐ 6. Document ID: US 6477683 B1

L18: Entry 6 of 26

File: USPT

Nov 5, 2002

US-PAT-NO: 6477683

DOCUMENT-IDENTIFIER: US 6477683 B1

TITLE: Automated processor generation system for designing a
configurable processor and method for the same

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Killian; Earl A.	Los Altos Hills	CA			
Gonzalez; Ricardo E.	Menlo Park	CA			
Dixit; Ashish B.	Mountain View	CA			
Lam; Monica	Menlo Park	CA			
Lichtenstein; Walter D.	Belmont	MA			
Rowen; Christopher	Santa Cruz	CA			
Ruttenberg; John C.	Newton	MA			
Wilson; Robert P.	Palo Alto	CA			
Wang; Albert Ren-Rui	Fremont	CA			
Maydan; Dror Eliezer	Palo Alto	CA			

US-CL-CURRENT: 716/1; 716/18

ABSTRACT:

An automated processor design tool uses a description of customized processor instruction set extensions in a standardized language to develop a configurable definition of a target instruction set, a Hardware Description Language description of circuitry necessary to implement the instruction set, and development tools such as a compiler, assembler, debugger and simulator which can be used to develop applications for the processor and to verify it. Implementation of the processor circuitry can be optimized for various criteria such as area, power consumption, speed and the like. Once a processor configuration is developed, it can be tested and inputs to the system modified to iteratively optimize the processor implementation. By providing a constrained domain of extensions and optimizations, the process can be automated to a high degree, thereby facilitating fast and reliable development.

104 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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MMMC	Draw Desc	Image
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☐ 7. Document ID: US 6477638 B1

L18: Entry 7 of 26

File: USPT

Nov 5, 2002

US-PAT-NO: 6477638

DOCUMENT-IDENTIFIER: US 6477638 B1

TITLE: Synchronized instruction advancement through CPU and FPU pipelines

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gearty; Margaret Rose	Bath			GB
Peng; Chih-Jui	San Jose	CA		

US-CL-CURRENT: 712/220; 712/203, 712/222

ABSTRACT:

A computer system having a central processing unit (CPU) execution pipeline and a floating point unit (FPU) execution pipeline, the CPU pipeline including a plurality of pipestages and the FPU pipeline including a plurality of pipestages, wherein each CPU pipestage in the CPU pipeline has a corresponding pipestage in the FPU pipeline, a method of synchronizing operation of the CPU pipeline and the FPU pipeline, the method including the steps of (a) receiving an instruction in a first CPU pipestage, (b) receiving the instruction in a corresponding first FPU pipestage, (c) processing the instruction in the first CPU pipestage, (d) processing the instruction in the first FPU pipestage, (e) generating, by the first CPU pipestage, a first signal indicating that the instruction has been processed by first CPU pipestage and is ready to proceed to a second pipestage in the CPU pipeline, (f) generating by the first FPU pipestage, a second signal indicating that the instruction has been processed by the first FPU pipestage and is ready to proceed to a second pipestage in the FPU pipeline, (g) sending the instruction from the first CPU pipestage to the second pipestage in the CPU pipeline, (h) sending the instruction from the first FPU pipestage to the second pipestage in the FPU pipeline, (i) wherein the second pipestage in the CPU pipeline responds to the second signal to send the instruction to a third pipestage in the CPU pipeline, and (j) wherein the second pipestage in the FPU pipeline responds to the first signal to send the instruction to a third pipestage in the FPU pipeline. A corresponding apparatus is also provided.

9 Claims, 7 Drawing figures

Exemplary Claim Number: 4

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RVND	Draw Desc	Image
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☐ 8. Document ID: US 6463553 B1

L18: Entry 8 of 26

File: USPT

Oct 8, 2002

US-PAT-NO: 6463553

DOCUMENT-IDENTIFIER: US 6463553 B1

TITLE: Microcomputer debug architecture and method

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edwards; David Alan	Bristol			GB

US-CL-CURRENT: 714/38; 714/31, 714/47, 717/124, 717/129, 717/131

ABSTRACT:

A method of filtering debugging data in a computer system including at least one central processing unit and a memory unit coupled to the at least one central processing unit. The method includes the steps of defining a set of watchpoints in the computer system by defining a set of precondition registers and a set of action registers, defining a set of identical precondition codes to be applied to each watchpoint in the set of watchpoints, defining a set of identical action codes to be applied to each watchpoint in the set of watchpoints, storing the set of precondition codes in each precondition register in the set of precondition registers, storing the set of action codes in each action register in the set of action registers, selecting which precondition codes in the set of precondition codes are to be active for a particular watchpoint, selecting which action code in the set of action codes are to be active for a particular watchpoint, operating the computer system so as to execute a program, comparing the debugging data in the computer system with the active precondition codes for a particular watchpoint, sending a signal to the action register for the particular watchpoint when the debugging data in the computer system satisfies the active precondition codes for the particular watchpoint, and causing the computer to respond to the active action codes for the particular watchpoint.

9 Claims, 23 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FNAC	Draw Desc	Image
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☐ 9. Document ID: US 6311292 B1

L18: Entry 9 of 26

File: USPT

Oct 30, 2001

US-PAT-NO: 6311292

DOCUMENT-IDENTIFIER: US 6311292 B1

TITLE: Circuit, architecture and method for analyzing the operation

of a digital processing system

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Choquette; Jack H.	Los Altos	CA		
Smith; Donald W.	Santa Clara	CA		

US-CL-CURRENT: 714/30; 714/31

ABSTRACT:

A dual access debugging architecture. This architecture allows the microprocessor to select between external debugging, supported via the physical system interface, and internal debugging, supported via logic within the microprocessor which is controlled by decoded software instructions.

In one example of the present invention, a microprocessor includes a system bus interface and a program decoder which is coupled to the system bus interface. The system bus interface is coupled to a system bus to which external memory is coupled. Debugging operations are stored as debugging instructions in the external memory. When these debugging instructions are retrieved from memory, through the system bus and the system bus interface, they are decoded in the program decoder of the microprocessor and they in turn cause the microprocessor to enter a first debugging mode which is controlled by the debugging instructions. The first debugging mode may be referred to as an internal programmable method. The microprocessor also includes a dedicated test port, such as a JTAG port, which provides signals to and from registers and other logic in test port logic on the IC (integrated circuit) of the microprocessor. The dedicated test port includes input/output pins on the microprocessor which convey the test signals to external test logic device, such as JTAG test equipment. Testing of the microprocessor using the dedicated test port involves asserting a signal in the test port which causes the microprocessor to enter a second debugging mode which is controlled by the external test logic device. This second debugging mode may be referred to as an external debug method.

17 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RAW	Dram Desc	Image
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☐ 10. Document ID: US 6289446 B1

L18: Entry 10 of 26

File: USPT

Sep 11, 2001

US-PAT-NO: 6289446

DOCUMENT-IDENTIFIER: US 6289446 B1

TITLE: Exception handling utilizing call instruction with context information

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nilsson; Hans-Peter	Lund			SE

US-CL-CURRENT: 712/244; 712/242

ABSTRACT:

In-code context data used for exception handling is incorporated into a special call instruction which is recognized by the processor. The information is skipped at the time of the function call and read at the time of the stack unwinding. This special call instruction may be implemented to run at no extra cycle costs compared to normal instructions, except for the external execution time dependencies from such machinery as a cache involved in the instruction fetching, since it would never be necessary during normal execution to actually access the information. The information is only accessed during exception handling.

19 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 11. Document ID: US 6145123 A

L18: Entry 11 of 26

File: USPT

Nov 7, 2000

US-PAT-NO: 6145123

DOCUMENT-IDENTIFIER: US 6145123 A

TITLE: Trace on/off with breakpoint register

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Torrey; James M.	Austin	TX		
Prickett; John M.	Manchaca	TX		
Lloyd; Jim L.	Austin	TX		

US-CL-CURRENT: 717/128; 703/28, 712/227, 714/30, 714/35, 714/37, 714/38, 714/45

ABSTRACT:

An information processing system such as a microprocessor includes a processor core, a debug register circuit and a trace unit. The processor core is for processing information according to a program. The program includes a plurality of instructions for execution by the processor core. Each of the plurality of instructions has a corresponding address. The debug register circuit is coupled to the processor core. The debug register circuit includes a dedicated initiate trace breakpoint register coupled to receive and store an initiate trace address and a dedicated terminate trace breakpoint register coupled to receive and store a terminate trace address. The trace unit is coupled to the debug register circuit and the processor core. The trace unit initiates a program trace responsive to the program accessing the initiate trace address. The trace unit terminates the program trace responsive to the program accessing the terminate trace address. The program trace includes information regarding the execution of the program by the microprocessor.

34 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 12. Document ID: US 6014728 A

L18: Entry 12 of 26

File: USPT

Jan 11, 2000

US-PAT-NO: 6014728

DOCUMENT-IDENTIFIER: US 6014728 A

TITLE: Organization of an integrated cache unit for flexible usage in supporting multiprocessor operations

DATE-ISSUED: January 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baror; Gigy	Austin	TX		

US-CL-CURRENT: 711/133; 711/134, 711/142, 711/143, 711/144,
711/145, 711/206

ABSTRACT:

A computer system having a cache memory subsystem which allows flexible setting of caching policies on a page basis and a line basis. A cache block status field is provided for each cache block to indicate the cache block's state, such as shared or exclusive. The cache block status field controls whether the cache control unit operates in a write-through write mode or in a copy-back write

mode when a write hit access to the block occurs. The cache block status field may be updated by either a TLB write policy field contained within a translation look-aside buffer entry which corresponds to the page of the access, or by a second input independent of the TLB entry which may be provided from the system on a line basis.

7 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 13. Document ID: US 5978937 A

L18: Entry 13 of 26

File: USPT

Nov 2, 1999

US-PAT-NO: 5978937

DOCUMENT-IDENTIFIER: US 5978937 A

TITLE: Microprocessor and debug system

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyamori; Takashi	Yokohama			JP
Yano; Tatsuo	Kobe			JP

US-CL-CURRENT: 714/45; 716/4

ABSTRACT:

A microprocessor 10 has a processor core 20 and a debug module 30. The processor core 20 executes a user program and a monitor program for debugging a user target system 70. The debug module 30 serves as an interface with a debug tool 60, to let the processor core 20 execute the monitor program stored in the debug tool 60. The debug module 30 makes an interrupt or exception request to switch the processor core 20 from the user program to the monitor program.

22 Claims, 44 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 35

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 14. Document ID: US 5680620 A

L18: Entry 14 of 26

File: USPT

Oct 21, 1997

US-PAT-NO: 5680620
DOCUMENT-IDENTIFIER: US 5680620 A

TITLE: System and method for detecting access to a peripheral device using a debug register

DATE-ISSUED: October 21, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ross; S. Timothy	Georgetown	TX		

US-CL-CURRENT: 717/129; 710/15, 714/34

ABSTRACT:

In a microprocessor, a debug facility traps accesses to a peripheral device, such as a speaker, residing at I/O port addresses. In one embodiment, a number of debug registers are provided for a system or an application program to set a trap at specific I/O or memory address, and to associate the specified address to an exception handling program. When another application program accesses the specified address, for example to adjust the settings of a speaker, the exception handling program is triggered to perform a specified task, such as to alert the program that the other application program accessed the device it intended to monitor.

21 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KNOW	Draw Desc	Image
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☐ 15. Document ID: US 5627992 A

L18: Entry 15 of 26

File: USPT

May 6, 1997

US-PAT-NO: 5627992
DOCUMENT-IDENTIFIER: US 5627992 A
** See image for Certificate of Correction **

TITLE: Organization of an integrated cache unit for flexible usage in supporting microprocessor operations

DATE-ISSUED: May 6, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baror; Gigy	Austin	TX		

US-CL-CURRENT: 711/133; 711/134, 711/142, 711/143, 711/144,
711/145, 711/205

ABSTRACT:

A computer system having a cache memory subsystem which allows flexible setting of caching policies on a page basis and a line basis. A cache block status field is provided for each cache block to indicate the cache block's state, such as shared or exclusive. The cache block status field controls whether the cache control unit operates in a write-through write mode or in a copy-back write mode when a write hit access to the block occurs. The cache block status field may be updated by either a TLB write policy field contained within a translation look-aside buffer entry which corresponds to the page of the access, or by a second input independent of the TLB entry which may be provided from the system on a line basis.

32 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWNC	Draw Desc	Image
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☐ 16. Document ID: US 5596764 A

L18: Entry 16 of 26

File: USPT

Jan 21, 1997

US-PAT-NO: 5596764

DOCUMENT-IDENTIFIER: US 5596764 A

TITLE: Debug mechanism for parallel-operating DSP module and CPU core

DATE-ISSUED: January 21, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Intrater; Gideon	Tel-Aviv			IL
Katzri; Lior	Ramat-Aviv			IL
Viner; Omri	Hod Hasharon			IL
Levitan; Raya	Givataim			IL
Tzadik; Yehezkel	Hedera			IL

US-CL-CURRENT: 712/34; 712/227, 714/34, 714/38

ABSTRACT:

An integrated data processing system includes a shared internal bus for transferring both instructions and data. A shared bus interface unit is connected to the shared internal bus and connectable via a shared external bus to a shared external memory array such that

instructions and data held in the shared external memory array are transferrable to the shared internal bus via the shared bus interface unit. A general purpose (GP) central processing unit (CPU) is connected to the shared internal bus for retrieving GP instructions. The GP CPU includes an execution unit for executing GP instructions to process data retrieved by the GP CPU from the shared internal bus. A digital signal processor (DSP) module connected to the shared internal bus, the DSP module includes a signal processor for processing an externally-provided digital signal received by the DSP module by executing DSP command-list instructions. Execution of DSP command-list code instructions by the DSP module is independent of and in parallel with execution of GP instructions by the GP CPU. A shared internal memory that holds command-list code instructions and is connected for access by the DSP module for retrieval of command-list code instructions for execution by the DSP module and for access by the GP CPU for storage and retrieval of instructions and data.

5 Claims, 51 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 40

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FIGURE	Draw Desc	Image
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☐ 17. Document ID: US 5530804 A

L18: Entry 17 of 26

File: USPT

Jun 25, 1996

US-PAT-NO: 5530804

DOCUMENT-IDENTIFIER: US 5530804 A

TITLE: Superscalar processor with plural pipelined execution units each unit selectively having both normal and debug modes

DATE-ISSUED: June 25, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edgington; Gregory C.	Scottsdale	AZ		
Circello; Joseph C.	Phoenix	AZ		
McCarthy; Daniel M.	Phoenix	AZ		
Duerden; Richard	Scottsdale	AZ		

US-CL-CURRENT: 714/30; 703/28, 712/23, 712/43

ABSTRACT:

A processor (10) has two modes of operation. One mode of operation is a normal mode of operation wherein the processor (10) accesses user address space or supervisor address space to perform a predetermined function. The other mode of operation is referred to as a debug, test, or emulator mode of operation and is entered via an exception/interrupt. The debug mode is an alternate operational

mode of the processor (10) which has a unique debug address space which executes instructions from the normal instruction set of the processor (10). Furthermore, the debug mode of operation does not adversely affect the state of the normal mode of operation while executing debug, test, and emulation commands at normal processor speed. The debug mode is totally non-destructive and non-obtrusive to the "suspended" normal mode of operation. While in debug mode, the existing processor pipelines, bus interface, etc. are utilized.

42 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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NUMC	Draw Desc	Image
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☐ 18. Document ID: US 5228131 A

L18: Entry 18 of 26

File: USPT

Jul 13, 1993

US-PAT-NO: 5228131

DOCUMENT-IDENTIFIER: US 5228131 A

TITLE: Data processor with selectively enabled and disabled branch prediction operation

DATE-ISSUED: July 13, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ueda; Tatsuya	Itami			JP
Yoshida; Toyohiko	Itami			JP

US-CL-CURRENT: 712/240

ABSTRACT:

The data processor related to the invention enables to designate whether the branch prediction mechanism itself should be activated or not for a conditional branch instruction, and the data processor enables to initialize branch history as required and also designates activation or inactivation of the branch prediction mechanism by setting a specific value to a specific bit of an exclusive usable register by software means. Also when a specific instruction is executed, the data processor automatically clears the branch history. As a result, in the event when the data processing efficiency is adversely declined by application of branch prediction mechanism or when monitoring external address bus, the branching prediction mechanism can be inactivated by setting the predetermined value to the exclusive usable register. Likewise, when the reliability of the branch history lowers due to such as variation in the program running condition, the data processor is capable of clearing the branch history by writing a specific value into the exclusive usable register, and when

executing a specific instruction which varies the program executing condition, branch history is automatically cleared.

7 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Dram Desc	Image
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☐ 19. Document ID: US 5185878 A

L18: Entry 19 of 26

File: USPT

Feb 9, 1993

US-PAT-NO: 5185878

DOCUMENT-IDENTIFIER: US 5185878 A

TITLE: Programmable cache memory as well as system incorporating same and method of operating programmable cache memory

DATE-ISSUED: February 9, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baror; Gigy	Austin	TX		
Johnson; William M.	San Jose	CA		

US-CL-CURRENT: 711/123; 711/130, 711/146, 711/169

ABSTRACT:

Methods and apparatus are disclosed for realizing an integrated cache unit (ICU) comprising both a cache memory and a cache controller on a single chip. The novel ICU is capable of being programmed, supports high speed data and instruction processing applications in both Reduced Instruction Set Computers (RISC) and non-RISC architecture environments, and supports high speed processing applications in both single and multiprocessor systems. The preferred ICU has two buses, one for the processor interface and the other for a memory interface. The ICU support single, burst and pipelined processor accesses and is capable of operating at frequencies in excess of 25 megahertz, achieving processor access times of two cycles for the first access in a sequence, and one cycle for burst mode or pipelined accesses. It can be used as either an instruction or data cache with flexible internal cache organization. A RISC processor and two ICUs (for instruction and data cache) implements a very high performance processor with 16k bytes of cache. Larger caches can be designed by using additional ICUs which, according to the preferred embodiment of the invention, are modular. Further features include flexible and extensive multiprocessor support hardware, low power requirements, and support of a combination of bus watching, ownership schemes, software control and hardware control schemes which may be used with the novel ICU to achieve cache consistency.

37 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Full	Draw Desc	Image
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☐ 20. Document ID: US 5136691 A

L18: Entry 20 of 26

File: USPT

Aug 4, 1992

US-PAT-NO: 5136691

DOCUMENT-IDENTIFIER: US 5136691 A

** See image for Certificate of Correction **

TITLE: Methods and apparatus for caching interlock variables in an integrated cache memory

DATE-ISSUED: August 4, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baror; Gigy	Austin	TX		

US-CL-CURRENT: 711/139; 711/128, 711/142

ABSTRACT:

Methods and apparatus are disclosed for supporting the caching of interlock variables in cache memory units employed in multiprocessor and/or multitasking environments. The preferred embodiment of the invention includes methods and apparatus for selectively treating interlock variables as cachable or non-cachable. The disclosed methods and apparatus are suitable for supporting high speed data and instruction processing applications in both RISC and non-RISC architecture environments, can be integrated on a single chip and allows for better performance and utilization of the computer system bus structure since most of the interlock variable accesses are faster and do not appear on the memory bus (only in the cache).

45 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Proceedings of the 25th ACM/IEEE conference on Design automation June 1988
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 Harley Mathews , Kam Li , John Katsaros**Proceedings of the 1975 annual conference** January 1975

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80%

 M. G. Wahl , H. Völkel**Proceedings of the conference on Design, automation and test in Europe** February 1998

To validate the functionality of a new highly complex graphics processor described in VHDL the working environment of the processors has to be modelled. In some cases appropriate models for the external components are commercially available, in other cases these models have to be created. In this paper a general memory model for SGRAMs is presented which had to be implemented to have a flexible simulation environment for a high speed graphics processor at hand. Key features are the generality, t ...

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 Kenneth E. Batcher**Proceedings of the 7th annual symposium on Computer Architecture** May 1980

The massively parallel processor (MPP) system is designed to process satellite imagery at high rates. A large number (16,384) of processing elements (PE's) are configured in a square array. For optimum performance on operands of arbitrary length, processing is performed in a bit-serial manner. On 8-bit integer data, addition can occur at 6553 million operations per

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 Jagesh Sanghavi , Albert Wang

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Defect and Fault Tolerance in VLSI Systems, 1999. DFT '99.

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16 Design and implementation of the "G2" PowerPC™ 603e-embedded microprocessor core*Hunter, C.; Gaither, J.;*

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Bearden, D.R.; Caffo, D.G.; Anderson, P.; Rossbach, P.; Iyengar, N.; Petersen, T.A.; Jen-Tien Yen;

Solid-State Circuits Conference, 2000. Digest of Technical Papers.

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Golshan, F.;

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Vermeulen, B.; Oostdijk, S.; Bouwman, F.;

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Dae-Young Jung; Sung-Ho Kwak; Moon-Key Lee;

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Kurd, N.A.; Barkarullah, J.S.; Dizon, R.O.; Fletcher, T.D.; Madland, P.D.;

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